

WHAT IS CLAIMED IS:

1. A network management system comprising:

5 an event gateway which is coupled to one or more managed objects and which is configured to deliver events generated by the managed objects to one or more managers; and

10 a platform-independent interface to the event gateway, wherein the event gateway is configurable to communicate with the managers through the platform-independent interface to deliver the events generated by the managed objects;

15 wherein the gateway is configurable to provide the managers with subscriptions to the events as a function of event criteria specified by the managers, whereby events meeting the specified event criteria are delivered and events failing to meet the specified event criteria are filtered out.

20 2. The network management system of claim 1, wherein the event criteria comprise an object class for the managed objects generating the events.

3. The network management system of claim 1, wherein the event criteria comprise an object instance for one of the managed objects generating the events.

25 4. The network management system of claim 1, wherein the event criteria comprise an event type.

30 5. The network management system of claim 1, wherein the platform-independent interface to the event gateway is expressed in an interface definition language, and wherein the interface definition language comprises a language for defining interfaces to

managed objects across a plurality of platforms and across a plurality of programming languages.

6. The network management system of claim 5, wherein the interface definition language comprises OMG IDL interface.

7. The network management system of claim 1, wherein the managed objects comprise one or more objects corresponding to a telephone network.

8. The network management system of claim 1, wherein the managed objects comprise an object corresponding to a telecommunications device.

9. The network management system of claim 1, wherein the event gateway comprises:

an event distribution server, wherein the event distribution server is configurable to listen for the events generated by the one or more managed objects and deliver the events to the one or more managers.

10. The network management system of claim 9, wherein the event gateway further comprises:

an event port registry server comprising one or more event ports and an event port registry,

wherein the event port registry server is coupled to the event distribution server,

wherein the event ports comprise communication channels for the delivery of the events to the one or more managers, and

wherein the event port registry provides information to the event distribution server regarding which ports correspond to which managers.

11. The network management system of claim 9, wherein the event distribution server  
5 comprises:

an event distribution server source which listens for the events from the one or more managed objects; and

10 one or more event distribution server sinks which are operable to dispatch the events to the one or more managers as a function of the subscriptions.

12. The network management system of claim 11, wherein the event distribution server sinks are distributed to provide load balancing.

13. The network management system of claim 1, wherein the events are delivered through the platform-independent interface according to Internet Inter-Object Protocol (IIOP).

14. A network management method comprising:

20 registering a subscription of a manager application to one or more events generated by one or more managed objects by specifying event criteria to an event gateway, wherein the event gateway is configurable to  
25 communicate with the manager application through a platform-independent interface;

generating a plurality of events including one or more events matching the specified event criteria;

determining whether the specified event criteria are met for each of the plurality of generated events; and

delivering each event for which the specified event criteria are met.

5

15. The network management method of claim 14, wherein the event criteria comprise an object class for the managed objects generating the events.

10

16. The network management method of claim 14, wherein the event criteria comprise an object instance for one of the managed objects generating the events.

17. The network management method of claim 14, wherein the event criteria comprise an event type.

15

18. The network management method of claim 14, wherein the platform-independent interface to the event gateway is expressed in an interface definition language, and wherein the interface definition language comprises a language for defining interfaces to managed objects across a plurality of platforms and across a plurality of programming languages.

20

19. The network management method of claim 18, wherein the interface definition language comprises OMG IDL.

25


20. The network management method of claim 14, wherein the managed objects comprise one or more objects corresponding to a telephone network.

21. The network management method of claim 14, wherein the managed objects comprise an object corresponding to a telecommunications device.

22. The network management method of claim 14, wherein the event gateway comprises:

5 an event distribution server which is coupled to the event port registry server,  
wherein the event distribution server is configurable to listen for the events  
generated by the one or more managed objects and deliver the events to  
the one or more managers.

10 23. The network management method of claim 22, wherein the event gateway further  
comprises:

15  an event port registry server comprising one or more event ports and an event port  
registry;

wherein the event port registry server is coupled to the event distribution server,  
  
wherein the event ports comprise communication channels for the delivery of the  
events to the one or more managers, and

20 wherein the event port registry provides information to the event distribution  
server regarding which ports correspond to which managers.

24. The network management method of claim 22, wherein the event distribution  
25 server comprises:

an event distribution server source which listens for the events from one or more  
managed objects; and

one or more event distribution server sinks which are operable to dispatch the events to managers as a function of the subscriptions.

25. The network management method of claim 24, wherein the event distribution  
5 server sinks are distributed to provide load balancing.

B/ 26. The network management method of claim 14, wherein the events are delivered  
through the platform-independent interface according to Internet Inter-Object Protocol  
(IIOP).

10 27. A carrier medium comprising program instructions for network management,  
wherein the program instructions are computer-executable to perform:

15 registering a subscription of a manager application to one or more events  
generated by one or more managed objects by specifying event criteria to  
an event gateway, wherein the event gateway is configurable to  
communicate with the manager application through a platform-  
independent interface;

20 generating a plurality of events including one or more events matching the  
specified event criteria;

25 determining whether the specified event criteria are met for each of the plurality  
of generated events; and

delivering each event for which the specified event criteria are met.

28. The carrier medium of claim 27, wherein the event criteria comprise an object  
class for the managed objects generating the events.

30

29. The carrier medium of claim 27, wherein the event criteria comprise an object instance for one of the managed objects generating the events.

5 30. The carrier medium of claim 27, wherein the event criteria comprise an event type.

10 31. The carrier medium of claim 27, wherein the platform-independent interface to the event gateway is expressed in an interface definition language, and wherein the interface definition language comprises a language for defining interfaces to managed objects across a plurality of platforms and across a plurality of programming languages.

11 32. The carrier medium of claim 31, wherein the interface definition language comprises OMG IDL.

15 33. The carrier medium of claim 27, wherein the managed objects comprise one or more objects corresponding to a telephone network.

16 33. The carrier medium of claim 27, wherein the managed objects comprise an object corresponding to a telecommunications device.

20

35 34. The carrier medium of claim 27, wherein the event gateway comprises:

an event distribution server which is coupled to the event port registry server,  
wherein the event distribution server is configurable to listen for the events  
25 generated by the one or more managed objects and deliver the events to  
the one or more managers.

30

35 35. The carrier medium of claim 34, wherein the event gateway further comprises:

an event port registry server comprising one or more event ports and an event port registry;

wherein the event port registry server is coupled to the event distribution server,

wherein the event ports comprise communication channels for the delivery of the events to the one or more managers, and

wherein the event port registry provides information to the event distribution server regarding which ports correspond to which managers.

35  
36. The carrier medium of claim 34, wherein the event distribution server comprises:

an event distribution server source which listens for the events from one or more managed objects; and

one or more event distribution server sinks which are operable to dispatch the events to managers as a function of the subscriptions.

38  
37. The carrier medium of claim 36, wherein the event distribution server sinks are distributed to provide load balancing.

39  
38. The carrier medium of claim 27, wherein the events are delivered through the platform-independent interface according to Internet Inter-Object Protocol (IIOP).